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Answer The Following

- 1) There are two numbers such that sum of the numbers is 50 and their difference is 14.
Find the difference of their cubes .
- 2) Solve the following:
 $\sqrt[3]{-1600} \times \sqrt[3]{2560}$
- 3) Which of the following numbers is a perfect cube?
27003, 998, 24389, 4102
- 4) Which of the following statements is false:
The sum of the cubes of the first n natural numbers is equal to the square of their sum
A number that has the last digit as 6 will have 6 as the last digit of its cube
All numbers that ends with '000' will be perfect cubes
If a number is divisible by a prime number p then the cube of that number is divisible by p^3
- 5) Find the value of A if
 $\sqrt[3]{500 \cdot A} = 10$

Choose correct answer(s) from given choice

- 6) If you subtract a number x from 16 times that number, and then take the cube of the difference, what will the result be?
 a. $4096x^3$
 b. $3375x^3$
 c. $3412x^2$
 d. $3303x^2$
- 7) What is the value of $\sqrt[3]{\frac{1728}{24389}}$?
 a. $\frac{12}{29}$
 b. $\frac{144}{29}$
 c. $\frac{15}{29}$
 d. $\frac{29}{12}$
- 8) What is the value of $\sqrt[3]{\frac{-216}{2197}}$?

A

13

Square Roots and Cube Roots

Square Root	Answer
$\sqrt{1} =$	1
$\sqrt{4} =$	2
$\sqrt{9} =$	3
$\sqrt{16} =$	4
$\sqrt{25} =$	5
$\sqrt{36} =$	6
$\sqrt{49} =$	7
$\sqrt{64} =$	8
$\sqrt{81} =$	9
$\sqrt{100} =$	10

Cube Root	Answer
$\sqrt[3]{1} =$	1
$\sqrt[3]{8} =$	2
$\sqrt[3]{27} =$	3
$\sqrt[3]{64} =$	4
$\sqrt[3]{125} =$	5

Name : _____ Score : _____
Teacher : _____ Date : _____

Perfect Squares and Cubes Operations

Write the square or cube for each number.

1) $4^2 = \underline{16}$ 2) $12^3 = \underline{1728}$ 3) $6^3 = \underline{216}$

4) $9^2 = \underline{81}$ 5) $10^3 = \underline{1000}$ 6) $2^2 = \underline{4}$

Write the square root for each number.

7) $\sqrt{16} = \underline{4}$ 8) $\sqrt{361} = \underline{19}$ 9) $\sqrt{100} = \underline{10}$

10) $\sqrt{36} = \underline{6}$ 11) $\sqrt{225} = \underline{15}$ 12) $\sqrt{64} = \underline{8}$

Write the cube root for each number.

13) $\sqrt[3]{1728} = \underline{12}$ 14) $\sqrt[3]{216} = \underline{6}$ 15) $\sqrt[3]{1000} = \underline{10}$

16) $\sqrt[3]{1} = \underline{1}$ 17) $\sqrt[3]{27} = \underline{3}$ 18) $\sqrt[3]{8000} = \underline{20}$



Famous Old Dudes

Estimating Square Roots: Review

Name: _____ Class Period: _____ Date: _____

Who said, "Motown will always be a heavy-duty part of my life because those are my roots?"

Calculators are awesome tools, but you may occasionally hit a wrong key. It is always a good idea to be able to come up with a reasonable estimate to double check the answer your calculator gives you.

To estimate a square root, think about what two perfect squares the number falls between. For example 78 falls between 64 and 81. The square root of 64 is 8 and the square root of 81 is 9. So, the square root of 78 will be between 8 and 9. ($\sqrt{78} \approx 8.832$)

Estimate each square root. Put the letter next to it in the spot where the square root falls on the number line below.

O. $\sqrt{78}$ Is between 8 and 9 E. $\sqrt{31}$ S. $\sqrt{150}$

I. $\sqrt{112}$ N. $\sqrt{200}$ K. $\sqrt{20}$

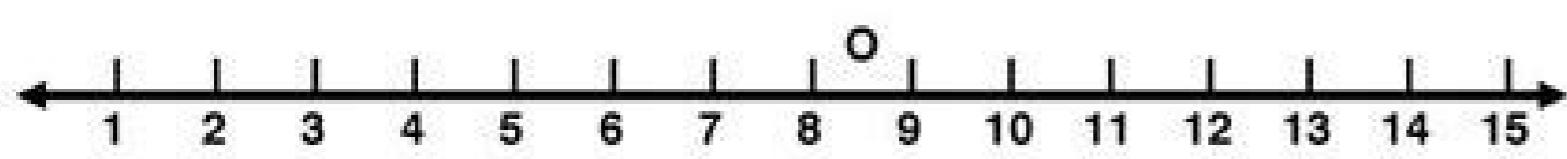
Y. $\sqrt{42}$ B. $\sqrt{90}$ N. $\sqrt{135}$

O. $\sqrt{175}$ S. $\sqrt{3}$ R. $\sqrt{58}$

M. $\sqrt{7}$ O. $\sqrt{11}$



Born in 1940



Prerequisite Worksheet for Section 15

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SQ 0

1. 196 is the square of
 (a) 11 (b) 12 (c) 14 (d) 16

2. Which of the following is a square of an even number?
 (a) 144 (b) 169 (c) 441 (d) 625

3. A number ending in 9 will have the units place of its square as
 (a) 3 (b) 9 (c) 1 (d) 6

4. Which of the following will have 4 at the units place?
 (a) 14^2 (b) 62^2 (c) 27^2 (d) 35^2

5. How many natural numbers lie between 5^2 and 6^2 ?
 (a) 9 (b) 10 (c) 11 (d) 12

6. Which of the following cannot be a perfect square?
 (a) 841 (b) 529 (c) 198
 (d) All of the above

7. The one's digit of the cube of 23 is
 (a) 6 (b) 7 (c) 3 (d) 9

8. A square board has an area of 144 square units. How long is each side of the board?
 (a) 11 units (b) 12 units (c) 13 units (d) 14 units

9. Which letter best represents the location of $\sqrt{25}$ on a number line?
 (a) A (b) B (c) C (d) D



10. If one member of a pythagorean triplet is $2m$, then the other two members are
 (a) m, m^2+1
 (b) m^2+1, m^2-1
 (c) m^2, m^2-1
 (d) $m^2, m+1$

11. The sum of successive odd numbers 1, 3, 5, 7, 9, 11, 13 and 15 is
 (a) 81 (b) 64 (c) 49 (d) 36

12. The sum of first n odd natural numbers is
 (a) $2n+1$ (b) n^2 (c) n^2-1 (d) n^2+1

13. Which of the following numbers is a perfect cube?
 (a) 243 (b) 216 (c) 392 (d) 8640

14. The hypotenuse of a right triangle with its legs of lengths $3x \times 4x$ is
 (a) $5x$ (b) $7x$ (c) $16x$ (d) $25x$

15. The next two numbers in the number pattern 1, 4, 9, 16, 25 ... are
 (a) 35, 48 (b) 36, 49 (c) 36, 48 (d) 35, 49

16. Which among $43^2, 67^2, 52^2, 59^2$ would end with digit 1?
 (a) 43^2 (b) 67^2 (c) 52^2 (d) 59^2

17. A perfect square can never have the following digit in its ones place.
 (a) 1 (b) 8 (c) 0 (d) 6

18. Which of the following numbers is not a perfect cube?
 (a) 216 (b) 567 (c) 125 (d) 343

19. $\sqrt[3]{1000}$ is equal to
 (a) 10 (b) 100 (c) 1
 (d) None of these

20. If m is the square of a natural number n , then n is
 (a) the square of m
 (b) greater than m
 (c) equal to m
 (d) \sqrt{m}

21. A perfect square number having n digits where n is even will have square root with
 (a) $n+1$ digit (b) $\frac{n}{2}$ digit (c) $\frac{n}{3}$ digit (d) $\frac{n+1}{2}$ digit

22. If m is the cube root of n , then n is
 (a) m^3 (b) \sqrt{m} (c) $\frac{m}{3}$ (d) $\sqrt[3]{m}$

23. The value of $\sqrt{248 + \sqrt{52 + \sqrt{144}}}$ is
 (a) 14 (b) 12 (c) 16 (d) 13

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